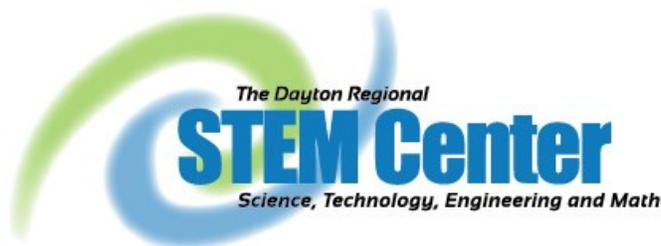


## Dayton Regional STEM Fellows in Action

with their Students and *Reflecting* on their Experiences

*“ Already I have seen the benefits my students have received through the STEM curriculum. Being part of the curriculum development I have learned so much about teaching that has helped me become a better teacher. I am now using project-based learning more in my classroom.”*

*- Jacqueline Barnes, Tri Village Schools*



*“ My participation as a STEM Fellow has helped me learn more about the big picture. It isn't just about me or my class alone. I am helping empower future professionals. I hope that some of them will choose engineering. Even if they do not, they will still think through diverse problems using the engineering design process.”*

*– Benjamin McCombs, Kettering City Schools*



**Engineering a Mechanical Arm**

Students at a Dayton Public High School collaborate to engineer an artificial arm capable of the dexterity necessary to pick up common objects. This photo was taken by a DPS STEM Fellow teacher incorporating a DRSC unit of instruction in her classroom impacting over 100 students with this curriculum experience.



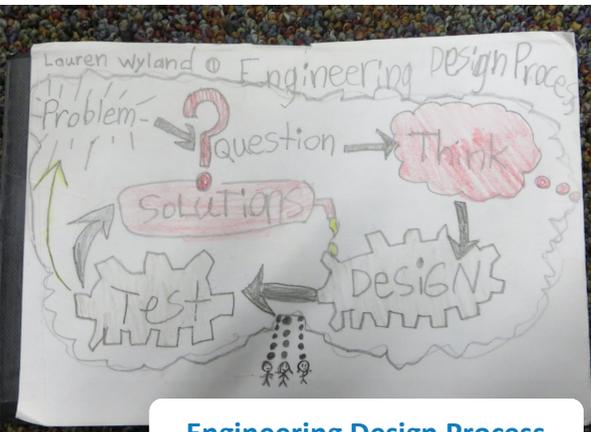
**Experimenting with Aerodynamics**

Elementary school students at Bishop Leibold collaborate to explore concepts involving wind propulsion and engineering solutions for harnessing sources of natural energy.



### Making Math Hands On

Sixth graders at Oakwood City Schools explore coordinate planes along with their teacher Monica Brouwer, a STEM Fellow. Ms. Brouwer implements on average 3 STEM lessons a year with her students providing them rich hands-on learning experiences overtly connected to STEM careers and skills.



### Engineering Design Process

This Kettering elementary student's drawing depicts their understanding of the cyclical nature of engineering as part of a Dayton Regional STEM Center unit of instruction. Their teacher has been a STEM Fellow for two seasons providing STEM advocacy within her building and at a district level through STEM trainings.

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*“ My interactions with industry professionals, Air Force Research Laboratory scientists and K-12 educators have strengthened my skills as both a leader and as an educator. I have become more prepared to present my students with real world experiences that are motivating them to research college majors and career options. ”*

*- Jeanette McNally, Miamisburg City Schools*

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*“ Being a part of the STEM community through the Dayton Regional STEM Center has greatly helped and challenged me. Personally it has supported me on a local, state and national level. As science department chair, I have been able to use STEM activities to help improve my teacher's classroom practices. I have also used STEM activities both in my summer science camp for 2nd-5th graders and my Xenia High School Chemistry Club that has provided outreach to over 2400 Xenia elementary students. ”*

*-Bill Richey, Xenia City Schools*

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*“ My work as a STEM Fellow has changed how I think about and teach science. This new way of thinking helps me challenge my students to think more like real scientists and engineers. It has also helped them enjoy science projects even more! ”*

*-Kathy Vonderbrink, Beavercreek Schools*

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